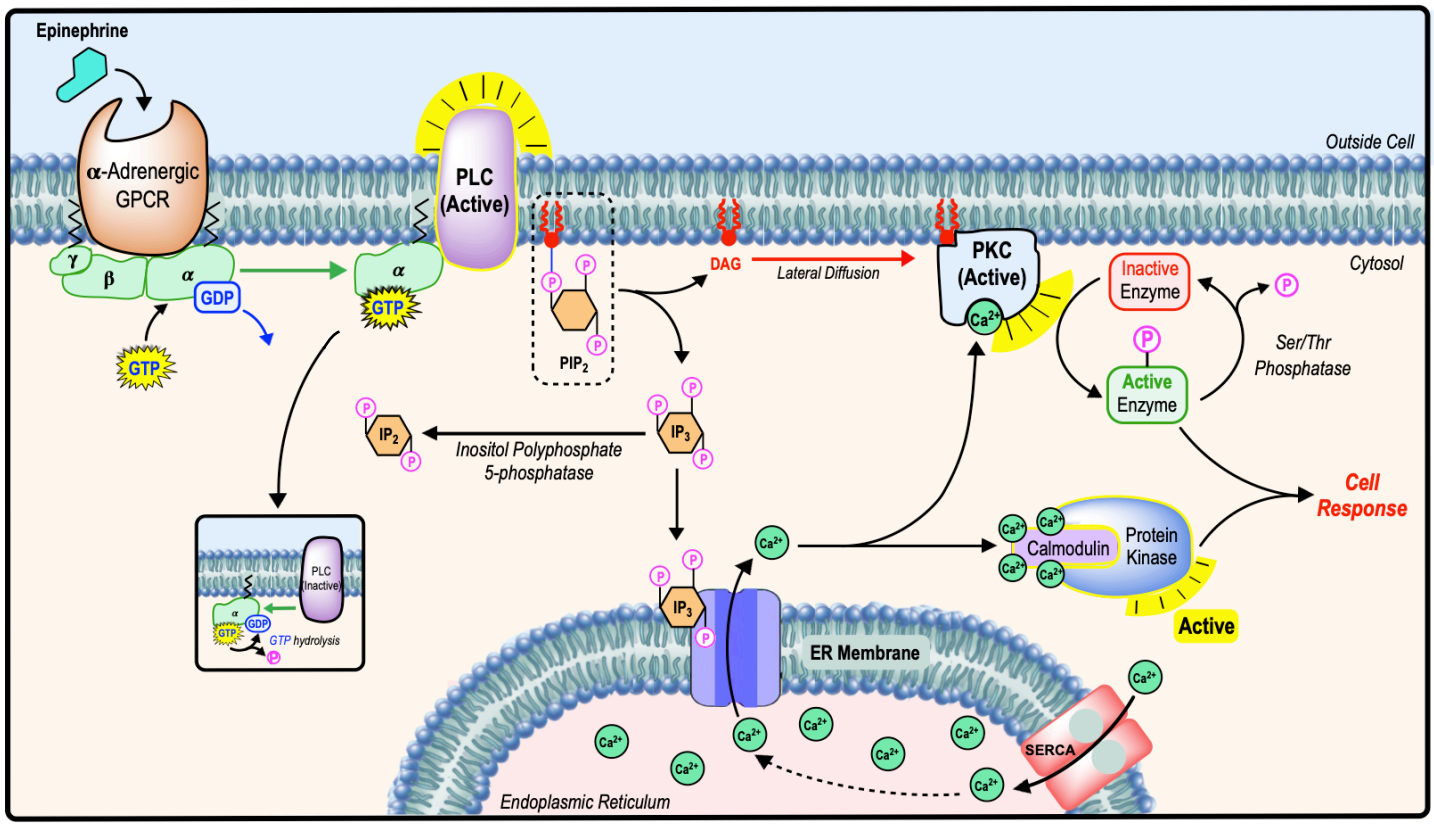
**CONCEPT:** RECAP OF PHOSPHOINOSITIDE GPCR SIGNALING




**PRACTICE:** Appropriately match each of the following terms with their description on the right.

a) Primary messenger _____.
b) Secondary messenger _____.
c) G-protein coupled receptor _____.
d) Protein Kinase A _____.
e) $G_{\alpha s}$ _____.
f) $G_{\alpha q}$ _____.
g) GTPase activity _____.
h) Phospholipase C _____.
i) Inositol triphosphate _____.
j) Protein Kinase C _____.

1. Generates two secondary messengers.
2. Stimulated by cAMP.
3. Activates phospholipase C.
4. Message received by the cell.
5. Composed of 7 transmembrane alpha-helices.
6. Results in the re-association of $G_{\alpha}$ and $G_{\beta\gamma}$.
7. Intracellular chemical message that relays a signal from ligand receptor.
8. Activates adenylate cyclase.
9. Activated by diacylglycerol and $Ca^{2+}$.
10. Activates a $Ca^{2+}$ channel.